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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,146	09/19/2003	Martin Eichlseder	EICHLSEDER-5	8722
	7590 01/08/200 IEREISEN, LLC	7	EXAMINER	
350 FIFTH AV	•	•	KOCH, GEORGE R	
SUITE 4714 NEW YORK, NY 10118			ART UNIT	PAPER NUMBER
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application No.	Applicant(s)	
		10/667,146	EICHLSEDER, MARTIN	
	Office Action Summary	Examiner	Art Unit	
		George R. Koch III	1734	
Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	correspondence address	h a
WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 IX (6) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communica D (35 U.S.C. § 133).	
Status	·		i e	
2a)☐ ☐ 3)☐ \$	Responsive to communication(s) filed on (o) Solution is FINAL . 2b) This Solution for allowant closed in accordance with the practice under Expenses.	action is non-final. ace except for formal matters, pro		s is
Dispositio	on of Claims			
4 5)□ (6)⊠ (7)□ (Claim(s) <u>1-21</u> is/are pending in the application. a) Of the above claim(s) <u>1-8</u> is/are withdrawn f Claim(s) is/are allowed. Claim(s) <u>9-21</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or			
Applicatio	n Papers	•		
10)□ T <i>A</i> F	he specification is objected to by the Examiner the drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of the conf	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.12	· · ·
Priority ur	nder 35 U.S.C. § 119	•		
12)⊠ A a)⊑ 1 2	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Copies of the certified copies of the priority documents plication from the International Bureau the the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s	s) .			
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 9/19/2003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte	

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of group 2, claims 9-21 in the reply filed on 10/30/2006 is acknowledged.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 9-11 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eichlsleder (WO 01/63605 A1 described in the instant specification, paragraph 0005) and Kempf '068 (US 5,612,068).

As to claim 9, and as described in paragraph 0005, Eichlsleder discloses an apparatus for making bonded discs of two substrates, in particular for making optical data carriers such as DVD, UDO disc or blueray disc, comprising: an adhesive

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application station for coating at least one of the substrates with an adhesive; a plurality of processing stations, disposed downstream of the adhesive application station, for further handling the substrates, said processing stations arranged about a circle and including a transfer station for placing the substrates in a standby position for further processing, at least one joining station for joining and bonding the substrates to produce a finished disc, at least one quality inspection station for checking the disc for acceptance or rejection, a first delivery station for receiving the disc, when the disc is acceptable, and a second delivery station for receiving the disc, when the disc is unacceptable;

Eichlsleder does not disclose a central handling system in the form of a carousel which includes a plurality of gripper arms and is constructed to move the gripper arms in horizontal and/or vertical direction into a number of indexing positions, wherein a first type of the gripper arms has two gripper elements arranged behind one another in radial direction so as to enable the gripper elements to sweep over two concentric circles of different diameter, when the gripper arms are moved in circumferential direction.

Hpowever, Kempf '068 discloses a number of handling systems in the form of a carousel which includes a plurality of gripper arms and is constructed to move the gripper arms in horizontal and/or vertical direction into a number of indexing positions, wherein a first type of the gripper arms has two gripper elements (see, for example, items 18' and 29). While Kempf '068 does not disclose the "concentric circle" setup, Kempf does disclose manipulators which are used for gripping two substrates side by side at the same time, using a cross or t-bar set-up. Kempf '068 discloses that using

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such double gripper manipulators allows for processing of different substrates (column 4, lines 7-11). Furthermore, rearrangement of parts is considered obvious. MPEP 2144.04 VI. C. Rearrangement of the gripping mechanisms from the t-bar set-up of Kempf to the claimed radially arranged grippers of the instant invention is considered an obvious rearrangement of parts. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such a gripper orientation as an obvious rearrangement of the orientation of Kempf '068.

As to claim 10, Eichlsleder discloses the concept of one of the transfer stations (item 19) being adapted to receive the substrates behind one another (by walking beam 12). When combined with Kempf '068 and the obvious rearrangement of parts discussed above (see claim 9), it is also obvious to receive the substrate in the radial direction so that the substrates are lined up along a straight line which intersects a rotation axis of the carousel at a right angle.

As to claim 11, Kempf '068 discloses that the two gripper elements of the first type of gripper arms have a distance from another to allow a simultaneous grabbing of the substrates.

As to claim 14, Eichlsleder discloses a second said joining station, each of the joining stations including two halves which are provided for receiving the substrates and configured to unfold into an open position and fold together into a closed position, wherein the joining stations are so positioned that their halves extend behind one another, when the halves assume the open position, (see paragraph 0005 of the instant application, which discusses the joining stations). With respect to the particular

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arrangement, having with one half situated on an inner one of the two concentric circles and the other half situated on an outer one of the two concentric circles, this is also obvious based on rearrangement of parts (discussed in claim 9 above).

As to claim 15, the apparatus of Eichlsleder and Kempf '068 is considered capable of halting the carousel so that the first and second gripper arms are positioned into indexing positions between the processing stations.

5. Claims 12, 13, 16-19, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eichlsleder and Kempf '068 as applied to claims 9-11 and 14-15 above, and further in view of Kempf '029 (US 6,054,029).

As to claims 12 and 13, Eichlsleder and Kempf '068 only make obvious a single type of gripper arm.

However, Kempf '029 suggests a central carousel with 3 different types of gripper arms. One gripper arm (item 13") has multiple grippers (see abstract, column 3). A second type of gripper arm, roughly analogous to the gripper arm of claim 12, includes a single gripper element. Kempf '029 utilizies multiple gripper arms in order to shift multiple substrates from processor station to processor station. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such a carousel with multiple types of grippers in order to shift the substrates from multiple processor stations.

As to claim 13, official notice is taken that the use of a third type of gripper arms constructed for telescopic movement in radial direction is well known and conventional.

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Adding telescopic movement would permit for more accurate placement of the substrate. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such telescopic movement in order to permit more accurate placement of the substrate.

As to claims 16-18, Kempf '029 discloses that the gripper arms are spaced apart, and that the carousel moves the arms in clockwise and counterclockwise direction.

Kempf '029 also spaces the stations around the carousel. However, Kempf '029 does not disclose the claims angles for the spacing of the gripper arms, the movement of the carousel, or the position of the processing stations. However, it is considered obvious to one of ordinary skill in the art to use the specific angle combinations. Such arrangements are obvious under known legal rationales. For example, all of the stations are disclosed in the prior art (see the rejection of claim 9 above), and the arrangement of these stations into the claimed pattern is considered an obvious rearrangement of parts under MPEP 2144.04 VI. C. Similarly, the spacing of the gripper arms and the angle of movement are directly related to the position and angular distribution of the stations, and are an obvious rearrangement of parts for the same reason

Furthermore, as to claim 19, the specifics of position of the known and disclosed elements is also an obvious rearrangement of parts.

As to claim 21, the carousel of Kempf '029 as incorporated is constructed to move the gripper arms in horizontal direction and separately thereto in vertical direction (see column 6, lines 16-48, which discloses the separate vertical direction).

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6. Claims 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Eichlsleder and Kempf '068 as applied to claims 9-11 and 14-15 above, and further in view of Kotoyori (US 6,228,203)

Eichlsleder merely disclose one linear guide or walking beam. Kempf '068 discloses multiple substrates, but not multiple sources. However, multiple sources are known.

Kotoyori discloses using a first linear guide for advancing the substrates to the transfer station (slider 2), and a second linear guide (slider 3) arranged in roughly parallel relationship to the first linear guide for supply of spacers or uncoated substrates to the central handling system. One in the art would appreciate that such multiple guides would permit for the use of different types of substrates, rather than identical substrates, for the top and bottom sides, such as those with different colors.

Furthermore, one would appreciate that it would be an obvious rearrangement of parts to make the guides strictly parallel. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized the multiple guides of Kotoyori with the apparatus of Eichlsleder and Kempf '068 in order to provide multiple supplies of different substrates for processing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (571) 272-1230 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the

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applicant can communicate by calling the Federal Relay Service at 1-866-377-8642 and giving the operator the above TDD number. The examiner can also be reached by E-mail at george.koch@uspto.gov in accordance with MPEP 502.03. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

George R. Koch III Primary Examiner Art Unit 1734

GRK 12/29/2006